

Aruba JL375A

Datasheet

Product Overview

- The Aruba CX 8400 is Aruba’s modular core switch, designed for digital-era campus and data center networks.
- This platform targets enterprise core, aggregation, and distribution layers, as well as demanding edge and data center topologies.
- It delivers up to 19.2 Tbps switching capacity and supports various high-speed port options within a resilient 8-slot chassis.
- Key features include carrier-class high availability, redundant components, and Aruba Virtual Switching Extension (VSX) for minimal downtime.
- Built-in automation with AOS-CX, powerful analytics, and seamless app-based deployment reduce operational overhead for all users.
- The Aruba CX 8400 empowers organizations with reliable and scalable connectivity, meeting both current and future business demands.

Product Highlights

- **Extreme Switching Performance:** Handles up to 19.2 Tbps in a compact modular design, ensuring wire-speed throughput for large networks.
- **Carrier-Class High Availability:** Redundancy across management, power, and fabric modules, plus advanced VSX for nonstop operations.
- **Advanced Network Automation:** AOS-CX OS enables automation with REST APIs, Python scripting, and integrated analytics tools.
- **Deep Segmentation and Mobility:** Supports BGP-EVPN VXLAN, Aruba CX Mobile App, and NetEdit for flexible deployments and network control.

Detailed Features



JL375A

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Component	Specification
Max 10GbE/25GbE Ports	256 (SFP/SFP+/SFP28)
Max 40GbE Ports	64 (QSFP+), or up to 48x 40/100GbE (QSFP28)
Number of Chassis Slots	8 line module slots



High-Density Modular Design

The Aruba CX 8400 features an 8-slot modular chassis that provides flexible port options for 10GbE, 25GbE, 40GbE, and 100GbE. This design allows for scalable deployments in both core and aggregation layers of campus and data center environments, supporting up to 256 high-speed ports.

Nonstop Operations and Redundancy

Equipped with redundant management, power, and fabric modules, the system delivers high availability and carrier-class resilience. Aruba Virtual Switching Extension (VSX) further ensures network continuity by enabling active-active device roles and rapid failover, minimizing service interruptions.

Programmable Operating System

AOS-CX operating system introduces native support for REST APIs and Python scripting, giving IT teams automation tools for faster provisioning, simplified maintenance, and enhanced network reliability. Custom workflows are easily integrated, streamlining operations across environments.

Cloud-Ready Network Analytics

Arubas built-in Network Analytics Engine continuously monitors and analyzes traffic patterns. Proactive insights and remediation capabilities allow administrators to detect bottlenecks, anomalies, or failures in real time, keeping network health at its peak.

Robust L2/L3 Services

The CX 8400 includes comprehensive Layer 2 and Layer 3 features like BGP, OSPF, EVPN, VRF, and IPv6. These advanced routing capabilities enable complex topologies, including data center leaf-spine architecture, and ensure secure, rapid traffic forwarding in diverse enterprise setups.

Flexible Deployment and Mobility

Dynamic VXLAN with BGP-EVPN allows granular network segmentation and mobility, making it easy to support multi-tenant, IoT, and cloud workloads. The platform adapts seamlessly to changing user and device patterns, maintaining optimum performance.

Intuitive Management Tools

One-touch setup with the Aruba CX Mobile App and Aruba NetEdit ensures that installations and configuration changes are handled quickly and accurately. Centralized validation and updates reduce manual errors and significantly lower operational costs.

Global Compliance and Efficiency

With certifications for international safety and electromagnetic compatibility, plus energy-efficient hardware, the CX 8400 is ready for global deployments. It supports high-density rack installations, operating reliably even in demanding data center or campus environments.

Technical Specifications

Product Specifications

Feature	Value
Line modules and slots	Supports a maximum of 256 10GbE (SFP/SFP+) or 25G (SFP/SFP+/SFP28) ports, or 64 40GbE (QSFP+) ports, or 48 ports 40/100GbE (QSFP28) combination
Eight slots for line modules	Max number of switch modules: 8
Module VoQ	4GB for JL687A
Module VoQ	1.5GB for JL363A and JL365A
Module VoQ	3GB for JL366A
Management Module slots	2 Management Module slots
Fabric Module slots	3 Fabric Module slots
Power Supply slots	4 Power Supply slots
Minimum power supply	2 minimum power supply required for a fully loaded chassis (or with 8 Line Modules)
Fan tray	Included with JL376A
Chassis Dimensions	17.4(w) x 26(d) x 13.8(h) in. (44.1 x 66.0 x 35.1 cm) (8U)



Feature	Value
	height)
Weight- Empty configuration	76 lbs (34 kg)
Weight- JL376A	164 lbs (74 kg)
Weight- Full configuration	241 lbs (109 kg)
Mounting	EIA standard 19-inch rack or cabinet (hardware included); horizontal surface mounting only
Switching Capacity	19.2Tbps
IPv4 Host Table	756,000
IPv6 Host Table	524,000
IPv4 Unicast Routes	1,011,712 (BGP RIB is limited to 256,00)
IPv6 Unicast Routes	524,288
MAC Table Size	768,000
IGMP Groups	32,767
MLD Groups	32,767
IPv4 Multicast Routes	32,767
IPv6 Multicast Routes	32,767
Non-Operating Temperature	-40°F to 158°F (-40°C to 70°C) with 5% to 95%, non-condensing
Max Operating Altitude	Up to 10,000ft (3.048 Km)
Max Non-Operating Altitude	Up to 30,000ft (9.144 Km)
Acoustics- Sound Power	7.3 Bel
Acoustics- Sound Pressure (Bystander)	55.6 dB
Frequency	47-63 Hz
AC voltage	90 – 140/180 – 264 VAC
Current	16 A
Power output	2750 W
Safety	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013
Safety	EN62368-1:2014
Safety	IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013
Safety	IEC62368-1, Ed. 2
Safety	IEC60825:2007 (Applies to products with lasers)



Feature	Value
Safety	UL60950-1, CSA 22.2 No 60950-1
Safety	UL62368-1 Ed. 2
Emissions	VCCI Class A; EN 55022 Class A; CISPR 22 Class A; IEC/EN 61000-3-2; IEC/EN 61000-3-3; ICES-003 Class A; AS/NZS CISPR 22 Class A; FCC (CFR 47, Part 15) Class A; GB9254; EN55032:2012 Class A; CISPR32:2012 Class A
Immunity	Directive 2014/35/EU
Immunity	EN: EN 55024:2010+ A1:2001 + A2:2003; ETSI EN 300 386 V1.3.3
Immunity	ESD: EN 61000-4-2
Immunity	Radiated: EN 61000-4-3
Immunity	EFT/Burst: EN 61000-4-4
Immunity	Surge: EN 61000-4-5
Immunity	Conducted: EN 61000-4-6
Immunity	Power frequency magnetic field: IEC 61000-4-8
Immunity	Voltage dips and interruptions: EN 61000-4-11
Immunity-Harmonics	EN 61000-3-2, IEC 61000-3-2
Immunity-Flicker	EN 61000-3-3, IEC 61000-3-3
Operating Temperature	32°F to 104°F (-0°C to 40°C) with 5% to 95%
Management	SNMP



Product Comparison

Feature	JL375A	OS10K-PS-24D	Arista DCS-7160-48YC6-F
Switching Capacity	19.2 Tbps	7.68 Tbps	6.4 Tbps
Max Ports	256 x 10/25GbE or 64 x 40GbE or 48 x 40/100GbE	576 x 10GbE or 144 x 40GbE	48 x 25/10GbE, 6 x 100GbE
Chassis Slots	8	10	Fixed (1RU)
Redundant Power Supply	Yes	Yes	Yes
Automation/ OS	AOS-CX, REST API, Python	Alcatel Lucent EOS, Automation APIs	Arista EOS, Automation APIs
Advanced Layer 3 Protocols	BGP, OSPF, EVPN, VRF, IPv6	BGP, OSPF, IS-IS, VRF, IPv6	BGP, OSPF, EVPN, VRF, IPv6
VSX/ Stacking	Virtual Switching Extension (VSX)	Stacking Supported	MLAG/ECMP
Rack Units	8U	20U	1U
Ideal Deployment	Campus Core/Data Center	Service Provider Core	Enterprise Datacenter Edge/ Core

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Fan Tray (JL376A) - Power Supply Unit - Mounting Hardware
Optional Accessories	<ul style="list-style-type: none"> - Aruba 8400 1 Fan Tray and 6 Fans Bundle (JL371A) - Additional Line Cards - Redundant Management Modules



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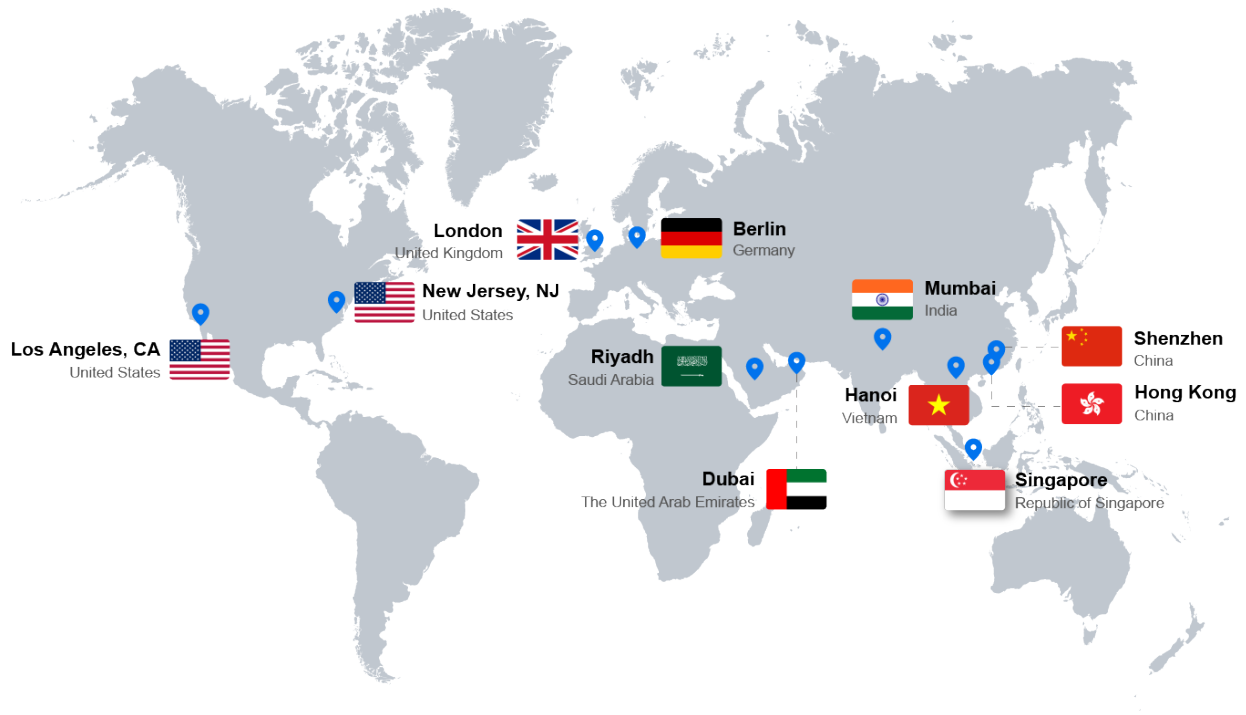
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References

[1] Aruba Networks. (2023). Aruba CX 8400 Series Switches Datasheet. Retrieved from <https://andovercg.com/datasheets/aruba-CX-8400-series-switches.pdf>